

A B S T R A C T

A METHOD AND APPARATUS FOR MONITORING LIVE ELECTRICAL
EQUIPMENT AT HIGH OR MEDIUM VOLTAGE

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An apparatus for monitoring live electrical equipment at high or medium voltage, the apparatus comprising:

10 - at least one sensor unit placed on the equipment, comprising a first radio antenna, a sensor for producing a digital signal related to a determined physical parameter at a point to be monitored, and amplitude-modulation means connected to the sensor and to the first antenna, and activated by the energy received by said antenna;

15 - a transceiver unit placed outside the equipment and having a second radio antenna for illuminating the first antenna, a power supply source, and signal processing means connected to the second antenna; and

20 - the first antenna retransmitting towards the second antenna the radio wave that has been transmitted thereby, while simultaneously amplitude-modulating it in response to the output signal of the sensor, said processing means being arranged to provide a signal related to said parameter.

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